Agenda item : G-1.4

STATUS OF NON ENVIRONMENTAL ACTIVITY

Non-environmental programs include "sensitive use" programs operated by governmental or non-profit organizations for national defense, homeland security, law-enforcement, humanitarian operations and programs approved for "episodic use" because of potential risk of loss of life such as expeditions and yacht races. Note that technological programs dedicated to operate, test or improve the system and to design and produce users platforms are not considered in the non-environmental activity.

Until the 37th Operations Committee meeting, the non-environmental activity has been calculated by using the load of processed telemetry in Kbits. In order to satisfy the request by OPSCOM of breaking down the analysis of non environmental activity in several categories, it is more convenient to use the same measurement units which have been used in the Argos system for a long time, i.e. PTT-months (id numbers received every day and averaged over one month). Thus, the reporting tools which were deployed under the Argos 2001 project can be used directly to get the figures. The effect could be a slight increase in the resulting percentage of the system use dedicated to non environmental activity but the use of PTT-months gives a realistic view of the use of the system.

- **2003 :**

Over the year 2003, the averaged percentage of system use by programs included in the sensitive use and episodic use has been **5.36%** of the total activity in the system, to be compared with the value obtained in 2002 while based on processed telemetry : **4.76%.**

The first table gives for 2003 the use in PTT-months for non-environmental programs compared with the total use in the whole Argos system and the resulting percentage.
The equivalent averaged number of transmitting platforms is given in the bottom line.

The second table gives the breakdown of this percentage by categories. It should be noted that national defense which represents very few activity is included in the law enforcement category as it is difficult to extract with the present reporting system.

The pie gives the breakdown of the activity between the different non environmental applications in the system : episodic, homeland security, law enforcement, humanitarian operations for 2003. On average the number of non environmental transmitting

platforms was 289 out of 5393 transmitting platforms for the whole Argos system. The number of non environmental active platforms was 555 out of 10092 active platforms for the whole system.

- **2004 :**

During the first quarter of 2004, the averaged percentage of system use by non environmental sensitive or episodic programs has been **4.89%** of the total activity in the system to be compared with the value obtained in the same quarter of 2003 while based on processed telemetry : **4.64%.**

On average the number of non environmental transmitting platforms is 283 out of 5782 transmitting platforms for the whole Argos system.

The tables and pie for the 1st quarter of 2004 give the same information as for 2003. The number of non environmental active platforms was 662 out of 10910 active platforms for the whole system.

The chart shows the occupation of the system by sensitive use platforms in Erlangs on April 9, 2004. On that date the part of the system use by sensitive use platforms was **4.59%** which confirms that the measurement of system use by using PTT-months is consistent with the measurement of system use by using the telemetry load.

Monitoring of non-environmental activity in 2003

Quarters	Non-environmental activity (Ptt-months)	Total activity (Ptt-months)	Percentage
1st 2003	924	15 286	6,05%
2nd 2003	873	16 087	5,43%
3rd 2003	860	16 766	5,13%
4th 2003	815	16 581	4,91%
Total in ptt-months	3 472	64 720	5,36%
Average transmitting platforms	289	5 393	

Monitoring of non-environmental activity in 2004

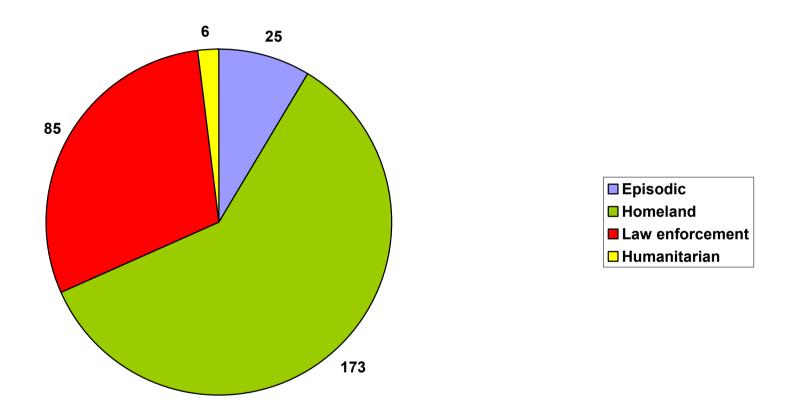| Quarters	Non-environmental activity (Ptt-months)	Total activity (Ptt-months)	Percentage
2nd 2004	848	17 346	4,89%
3rd 2004			
4th 2004			
1st 2004			
Total in ptt-months	848	17 346	4,89%
Average transmitting platforms	283	5 782	

Breakdown by categories in percentage of system use in 2003

Quarters	Episodic	Homeland	Law enforcement	Humanitarian	Total
1st 2003	0.66%	3.66%	1.67%	0.05%	6.05%
2nd 2003	0.39%	3.29%	1.63%	0.12%	5.43%
3rd 2003	0.46%	3.04%	1.49%	0.14%	5.13%
4th 2003	0.34%	2.90%	1.54%	0.13%	4.91%
Percentage for 2003	0.46%	3.21%	1.58%	0.11%	5.36%
Average transmitting platforms	25	173	85	6	289

Breakdown by categories in percentage of system use in 2004

Quarters	Episodic	Homeland	Law enforcement	Humanitarian	Total
1st 2004	0,32%	2,75%	1,62%	0,20%	4,89%
2nd 2004					
3rd 2004					
4th 2004					
Percentage for 2004	0,32%	2,75%	1,62%	0,20%	4,89%
Average transmitting platforms	18	159	94	12	283

**Breakdown of non environmental activity in ptt-months averaged over 2003
(Non environment = 289, Total system = 5393)**

Legend:
- Episodic
- Homeland
- Law enforcement
- Humanitarian

Values shown on chart: 6, 25, 85, 173

Breakdown of non environmental activity in ptt-months
1st quarter of 2004
(Non environment = 283, Total system = 5782)

12 18

94

159

- Episodic
- Homeland
- Law enforcement
- Humanitarian

Argos sensitive use in Erlang (Apr-2004)